



EXPRESS MAIL  
ED 693835315 US

## CLAIMS LIST

I claim the following:

1. (Currently Amended).

A bidet providing temperature [[, pressure]] and volume controlled mixed water, connected to hot water and cold water supply lines, [[for use]] useable with a toilet bowl with toilet seat said toilet bowl and seat having a curvature and an opening, used in combination with a standard mixing valve, said mixing valve being from the group that would restrict the temperature of the mixed water, said mixing valve having a cold water inlet, hot water inlet and an outlet, comprising:

- a.) a tubular member having a first end, a second end and a mid section, said tubular member being shaped to accommodate the curvature of said toilet bowl and seat;
- b.) a removable spray nozzle sized and shaped to be frictionally secured onto said tubular member first end;
- c.) a spring activated bracket said spring activated bracket having a first bracket section fixedly attached to said tubular member mid section, a second bracket section securely attached to said toilet seat, said first bracket section being pivotally positioned with said second bracket section, and a spring with a first end attached to said first bracket section and a second end attached to said second bracket section said spring activated bracket and spring being sized and shaped in order that said tubular member first end may move from a first position, being

under said toilet seat when out of use, to a second position, below said toilet seat opening when in use;

- d.) a diverter T having a primary inlet end, a primary outlet fitting, an injection port, a secondary inlet fitting and a secondary outlet end, said diverter T secondary outlet end being sized and shaped to be securely attached to said tubular member second end;
- e.) a double hose service hose with a first inlet end, a first outlet end, a second inlet end and a second outlet end, said first inlet end sized and shaped to be frictionally secured to said diverter T primary outlet fitting, said second outlet end sized and shaped to be frictionally secured to said diverter T secondary inlet fitting;
- f.) a vacuum breaker having an inlet fitting and an outlet fitting, said inlet fitting being sized and shaped to have said double hose service hose first outlet end be frictionally secured thereto, said outlet fitting being sized and shaped to have said double hose service hose second inlet end be frictionally secured thereto;
- g.) a self closing valve with an internal cavity, an inlet, an outlet and an activation means, said activation means being a spring, a plurality of washers, a plunger, a pivoting handle, and a range of movement restricting set screw, said pivoting handle may be depressed or released, said spring, plurality of washers and plunger being positioned within said internal cavity, said plunger interacting with both said pivoting handle and said spring, said plunger having a range of movement from an open first position to a fully closed second position, said spring positioned to cause said plunger to return to the fully closed second position when

the handle is released, said range of movement restricting set screw positioned in the handle in order that it may be adjusted within a range from a first unrestricted flow position to a second fully restricted no flow position, when the movement restricting set screw is in the first unrestricted flow position the handle has range of movement permitting control up to maximum flow [[pressure]] of mixed water when depressed, when the movement restricting set screw is in the second fully restricted, no flow position, the handle has limited range of movement permitting no flow of mixed water when depressed, said self closing valve outlet being sized and shaped in order that said diverter T primary inlet end is fixedly secured therein;

- h.) a section of standard tubing with a first end and a second end, said first end being sized and shaped to be fixedly secured to said self closing valve inlet;
- i.) said standard mixing valve being of the group that would restrict the temperature range of the mixed water to not exceed a desired temperature, said standard mixing valve outlet being sized and shaped in order that said section of standard tubing second end may be fixedly secured thereto, said standard mixing valve hot water inlet being fixedly secured to a hot water supply line said standard mixing valve cold water inlet being fixedly secured to a cold water supply line; and
- j.) said temperature [[, pressure]] and volume controlled mixed water being delivered at the removable spray nozzle.

2. (Currently Amended)

A bidet providing temperature [[, pressure]] and volume controlled mixed water, connected to hot water and cold water supply lines, [[for use]] useable with a toilet bowl with toilet seat said toilet bowl and seat having a curvature and an opening, used in combination with a standard mixing valve having a cold water inlet, hot water inlet and an outlet, said mixing valve being of the group that would restrict the temperature range of the mixed water to not exceed 110° F comprising:

- a.) a tubular member having a first end, a second end and a mid section, said tubular member being shaped to accommodate the curvature of said toilet bowl and seat;
- b.) a removable spray nozzle sized and shaped to be frictionally secured onto said tubular member first end;
- c.) a spring activated bracket said spring activated bracket having a first bracket section fixedly attached to said tubular member mid section , a second bracket section securely attached to said toilet seat, said first bracket section being pivotally positioned with said second bracket section, and a spring with a first end attached to said first bracket section and a second end attached to said second bracket section said spring activated bracket and spring being sized and shaped in order that said tubular member first end may move from a first position, being under said toilet seat when out of use, to a second position, below said toilet seat opening when in use;

- d.) a diverter T having a primary inlet end, a primary outlet fitting, an injection port, a secondary inlet fitting and a secondary outlet end, said diverter T secondary outlet end being sized and shaped to be securely attached to said tubular member second end;
- e.) a double hose service hose with a first inlet end, a first outlet end, a second inlet end and a second outlet end, said first inlet end sized and shaped to be frictionally secured to said diverter T primary outlet fitting, said second outlet end sized and shaped to be frictionally secured to said diverter T secondary inlet fitting;
- f.) a vacuum breaker having an inlet fitting and an outlet fitting, said inlet fitting being sized and shaped to have said double hose service hose first outlet end be frictionally secured thereto, said outlet fitting being sized and shaped to have said double hose service hose second inlet end be frictionally secured thereto;
- g.) a self closing valve with an internal cavity, an inlet, an outlet and an activation means, said activation means being a spring, a plurality of washers, a plunger, a pivoting handle, and a range of movement restricting set screw, said pivoting handle may be depressed or released, said spring, plurality of washers and plunger being positioned within said internal cavity, said plunger interacting with both said pivoting handle and said spring, said plunger having a range of movement from an open first position to a fully closed second position, said spring positioned to cause said plunger to return to the fully closed second position when the handle is released, said range of movement restricting set screw positioned in the handle in order that it may be adjusted within a range from a first unrestricted

flow position to a second fully restricted no flow position, when the movement restricting set screw is in the first unrestricted flow position the handle has range of movement permitting control up to maximum flow [[pressure]] of mixed water when depressed, when the movement restricting set screw is in the second fully restricted no flow position the handle has limited range of movement permitting no flow of mixed water when depressed, said self closing valve outlet being sized and shaped in order that said diverter T primary inlet end is fixedly secured therein;

- h.) a section of standard tubing with a first end and a second end, said first end being sized and shaped to be fixedly secured to said self closing valve inlet;
- i.) said standard mixing valve being of the group that would restrict the temperature range of the mixed water to not exceed 110° F, said standard mixing valve outlet being sized and shaped in order that said section of standard tubing second end may be fixedly secured thereto, said standard mixing valve hot water inlet being fixedly secured to a hot water supply line said standard mixing valve cold water inlet being fixedly secured to a cold water supply line; and
- j.) said temperature [[, pressure]] and volume controlled mixed water being delivered at the removable spray nozzle.

3. (Currently Amended)

A bidet providing temperature [[, pressure]] and volume controlled mixed water, connected to hot water and cold water supply lines, [[for use]] useable with a toilet bowl with toilet seat said toilet bowl and seat having a curvature and an opening, used in combination with a standard mixing valve having a cold water inlet, hot water inlet and an outlet, said mixing valve being of the group that would restrict the temperature range of the mixed water to not exceed 110° F comprising:

- a.) a tubular member having a first end, a second end and a mid section, said tubular member being shaped to accommodate the curvature of said toilet bowl and seat;
- b.) a removable spray nozzle sized and shaped to be frictionally secured onto said tubular member first end;
- c.) a spring activated bracket said spring activated bracket having a first bracket section fixedly attached to said tubular member mid section , a second bracket section securely attached to said toilet seat, said first bracket section being pivotally positioned with said second bracket section, and a spring with a first end attached to said first bracket section and a second end attached to said second bracket section said spring activated bracket and spring being sized and shaped in order that said tubular member first end may move from a first position, being under said toilet seat when out of use, to a second position, below said toilet seat opening when in use;

- d.) a diverter T having a primary inlet end, a primary outlet fitting, an injection port, a secondary inlet fitting and a secondary outlet end, said diverter T secondary outlet end being sized and shaped to be securely attached to said tubular member second end;
- e.) a double hose service hose with a first inlet end, a first outlet end, a second inlet end and a second outlet end, said first inlet end sized and shaped to be frictionally secured to said diverter T primary outlet fitting, said second outlet end sized and shaped to be frictionally secured to said diverter T secondary inlet fitting;
- f.) a vacuum breaker having an inlet fitting and an outlet fitting, said inlet fitting being sized and shaped to have said double hose service hose first outlet end be frictionally secured thereto, said outlet fitting being sized and shaped to have said double hose service hose second inlet end be frictionally secured thereto;
- g.) a self closing valve with an internal cavity, an inlet, an outlet and an activation means, said activation means being a spring, a plurality of washers, a plunger, a pivoting handle, and a range of movement restricting set screw, said pivoting handle may be depressed or released, said spring, plurality of washers and plunger being positioned within said internal cavity, said plunger interacting with both said pivoting handle and said spring, said plunger having a range of movement from an open first position to a fully closed second position, said spring positioned to cause said plunger to return to the fully closed second position when the handle is released, said range of movement restricting set screw positioned in the handle in order that it may be adjusted within a range from a first unrestricted



flow position to a second fully restricted no flow position, when the movement restricting set screw is in the first unrestricted flow position the handle has range of movement permitting control up to maximum flow [[pressure]] of 70 psi of mixed water when depressed, when the movement restricting set screw is in the second fully restricted no flow position the handle has limited range of movement permitting no flow of mixed water when depressed, said self closing valve outlet being sized and shaped in order that said diverter T primary inlet end is fixedly secured therein;

- h.) a section of standard tubing with a first end and a second end, said first end being sized and shaped to be fixedly secured to said self closing valve inlet;
- i.) said standard mixing valve being of the group that would restrict the temperature range of the mixed water to not exceed 110° F, said standard mixing valve outlet being sized and shaped in order that said section of standard tubing second end may be fixedly secured thereto, said standard mixing valve hot water inlet being fixedly secured to a hot water supply line said standard mixing valve cold water inlet being fixedly secured to a cold water supply line; and
- j.) said temperature[[, pressure]] and volume controlled mixed water being delivered at the removable spray nozzle.

Express Mail  
ED693835315US

Serial No.: 10/694,514  
Filing Date: 10/27/2003  
Group:  
Unit: 3751  
Title: BIDET  
Atty Doc. No.: UTL 00-025  
Inventor's Name: MANUEL A. PACHECO  
Examiner: FETSUGA, ROBERT M.

Number of Sheets: 9

Page 9 of 9